

Serial No. Not Yet Assigned

Atty. Doc. No. 2001P01928WOUS

Amendments To the Claims:

Please amend the claims as shown.

1.-11. (cancelled)

12. (new) A device for cooling a coolant in a gas turbine, comprising: a plurality of interconnected evaporator tubes arranged in a coolant channel connected to the gas turbine to accommodate a flow of the coolant and to provide a forced throughflow steam generator, whereby the coolant evaporates completely in the evaporator tubes in a single pass through the evaporator tubes.

13. (new) A device according to Claim 12, wherein compressor air from the gas turbine can be applied to the coolant channel.

14. (new) A device according to Claim 12, wherein the coolant channel is designed for direct flow of the coolant for the gas turbine in an substantially horizontal direction, an longitudinal axis of the evaporator tubes substantially aligned in a vertical direction.

15. (new) A device according to Claim 12, wherein each of the evaporator tubes has internal fins.

16. (new) A device according to one of Claim 12, wherein the flow medium can be applied to the evaporator tubes via a supply line preceding them on the inlet side, wherein mechanisms to select the throughflow rate of the flow medium are connected to the supply line.

17. (new) A device according to Claim 16, wherein the means of setting the throughflow rate of the flow medium include a flow restrictor connected to the supply line.

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18. (new) A device according to Claim 13, wherein the coolant channel is designed for direct flow of the coolant for the gas turbine in an essentially horizontal direction, whereby the longitudinal axis of the evaporator tubes is essentially aligned in a vertical direction.

19. (new) A device according to Claim 13, wherein each of the evaporator tubes has internal fins.

20. (new) A device according to Claim 14, wherein each of the evaporator tubes has internal fins.

21. (new) A device according to Claim 13, wherein the flow medium can be applied to the evaporator tubes via a supply line preceding them on the inlet side, wherein means to select the throughflow rate of the flow medium are connected to the supply line.

22. (new) A device according to Claim 14, wherein the flow medium can be applied to the evaporator tubes via a supply line preceding them on the inlet side, wherein means to select the throughflow rate of the flow medium are connected to the supply line.

23. (new) A device according to Claim 15, wherein the flow medium can be applied to the evaporator tubes via a supply line preceding them on the inlet side, wherein means to select the throughflow rate of the flow medium are connected to the supply line.

24. (new) A device according to Claim 12, wherein the forced throughflow steam generator functions by using heat produced while cooling the coolant to generate high quality steam.

25. (new) A gas and steam turbine, comprising:

a device for a coolant cooling of a gas turbine, in which a number of interconnected evaporator tubes are arranged in a coolant channel connected to the gas turbine for a flow medium for a formation of a forced throughflow steam generator, whereby the flow medium is adapted to evaporate completely in the evaporator tubes in a single operation;

a waste heat steam generator connected to an exhaust gas side of the gas turbine, wherein the heating surfaces are connected to a water-steam circuit of the steam turbine; and

a supply line connecting the evaporator tubes on the inlet side to the feedwater train of the water-steam circuit of the steam turbine.

26. (new) A gas and steam turbine according to Claim 25, wherein the evaporator tubes of the device assigned to the gas turbine for coolant cooling are connected on the outlet side to a high-pressure stage of the water-steam circuit.

27. (new) A gas and steam turbine according to Claim 25, wherein the supply line is connected on the inlet side via a first partial flow line to a first partial component of the feedwater train preceding a feedwater preheater and via a second partial flow line to a second partial component of the feedwater train downstream of the feedwater preheater.

28. (new) A gas and steam turbine according to Claim 27, wherein in each of the first and second partial flow lines, mechanisms of setting the throughflow rate of the respective partial flow are connected to flow medium to which a control system is assigned, via which the flow ratio of the partial flows is adjustable in the partial flow lines as a function of a characteristic value for a temperature value of the coolant to be cooled.